Hamster Anti-Mouse CD28

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1610-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1610-02</td>
<td>Fluorescein (FITC)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1610-08</td>
<td>Biotin (BIOT)</td>
<td>0.5 mg</td>
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<tr>
<td>1610-09</td>
<td>R-phycocerythrin (PE)</td>
<td>0.1 mg</td>
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<tr>
<td>1610-09L</td>
<td>R-phycocerythrin (PE)</td>
<td>0.2 mg</td>
</tr>
<tr>
<td>1610-11</td>
<td>Allophycocyanin (APC)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>1610-13</td>
<td>Spectral Red® (SPRD)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>1610-14</td>
<td>Low Endotoxin, Azide-Free (LE/AF)</td>
<td>0.5 mg</td>
</tr>
</tbody>
</table>

Overview

Clone: 37.51
Isotype: Hamster (Syrian) IgG2
Immunogen: C57BL/6N mouse T cell lymphoma EL-4 cell line
Specificity: Mouse CD28; Mr 40 kDa
Alternate Name(s): Tp44, T44

Description

CD28 is a type I disulfide-linked homodimer that is constitutively expressed on most thymocytes, at low density on nearly all CD4+ and CD8+ peripheral T lymphocytes and at very low levels on NK cells. Its expression is upregulated upon T-cell activation. CD28 is a ligand for CD80 (B7-1) and CD86 (B7-2) on B cells and other antigen presenting cells and plays an important role in the interaction between T cells and B cells. CD28 is a costimulatory receptor involved in many, but not all, T-cell independent immune responses.

Applications

FC – Quality tested 1,2
IP – Reported in literature 1
Costim – Reported in literature 1-3,7-9,11
Stim – Reported in literature 10
Activ – Reported in literature 6
Block – Reported in literature 6

Working Dilutions

Flow Cytometry

FITC and BIOT conjugates ≤ 2 μg/10^6 cells
PE, APC, and SPRD conjugates ≤ 0.2 μg/10^6 cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL

Other Applications

Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. **No preservatives or amine-containing buffer salts added.** Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO₃. Store at 2-8°C.
- The R-phycocerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaNO₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNO₃ and a stabilizing agent. Store at 2-8°C.
- The Spectral Red® (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNO₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

11. Shen XZ, Okwan-Doudu D, Blackwell W, Ong FS, Januljia T, Bernstein EA. Myeloid expression of angiotensin-converting enzyme facilitates myeloid maturation and inhibits the development of myeloid-derived suppressor cells. Lab Invest. 2014;94:536-44. (Costim)

Spectral Red® is a registered trademark of Southern Biotechnology Associates, Inc.
Spectral Red® is a PE/CY5 tandem conjugate.
Cy5® is a registered trademark of GE Healthcare.